

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037994 A3

(51) International Patent Classification:
A01K 67/00 (2006.01) A01K 67/033 (2006.01)
A01K 67/027 (2006.01)

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East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(21) International Application Number:
PCT/US2004/032505

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 4 October 2004 (04.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/509,505 8 October 2003 (08.10.2003) US

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:
— with international search report

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(88) Date of publication of the international search report:
22 February 2007

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: TRANSGENIC RODENTS SELECTIVELY EXPRESSING HUMAN B1 BRADYKININ RECEPTOR PROTEIN

(57) Abstract: Non-human transgenic animals, such as transgenic mice, are generated which incorporate the a non-native form of the bradykinin B1 receptor gene against a null phenotype for the native form of the bradykinin B1 receptor. An exemplified portion of the invention disclosed a transgenic mouse wherein a targeting construct containing a transgene encoding the human B1 bradykinin receptor gene is inserted downstream of and operatively linked to the native mice bradykinin B1 promoter. This targeting construct also contains a floxed neomycin resistance gene. The resulting transgenic animals are "humanized" for the bradykinin B1 receptor and are effectively on a null background for native, functional B1 receptor activity. These animals may be crossed with a Cre-deleter strain to generate transgenic offspring which absent of the floxed marker gene. The transgenic animals described herein provide for a model to The transgenic mice of the present invention provide for an animal model enabling the analysis of compounds that are selective for the human B1 bradykinin receptor, relative to the rodent (e.g., rat or mouse) B1 bradykinin receptor.

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